

REMARKS

This amendment responds to the office action mailed March 14, 2005. In the office action the Examiner:

- rejected claims 1-8, 10, and 12-19 under 35 U.S.C. 102(b) as being anticipated by Allison et al.
- objected to claims 9, 11 and 20.

After entry of this amendment, the pending claims are: claims 7, 9-17, and 21-32. The total number of pending claims is 22.

Overview of Changes to Claims

Claims 1-6, 8 and 18-20 have been cancelled. Claim 7 has been amended to incorporate the limitations of previously pending claims 1 and 8. Claim 7 also includes a plurality of offsets in the expanded average. Support for the plurality of offsets is found in paragraph 41 in the specification. Claims 9 and 10 have been amended to depend on claim 7. Claims 12 and 13 have been amended to clarify that the wide-area satellite positioning system is a wide-area differential satellite positioning system. Support is found in the specification in paragraphs 6 and 9. New claims 21-32 have been added. Support is found in the specification in paragraphs 9-11 and in pending claim 12. The new claims and the other amendments, therefore, do not introduce new matter.

35 USC 102(b) Rejections

Claims 1-8, 10 and 12-19 have been rejected under 35 U.S.C. 102(b) as anticipated by Allison et al. (US 5,359,332). The Applicants disagree and traverse.

Claims 1-6, 18 and 19 have been cancelled in the present reply without prejudice.

Presently amended independent claim 7 contains the limitation of computing the floating ambiguity value by taking an expanding average including a plurality of offsets between the adjusted carrier-phase measurement and a corresponding code measurement at each of the series of measurement epochs. Allison et al. does not disclose or suggest this limitation. Allison discloses determining estimates of the double difference phase integer with the roving antenna in two positions (col. 13, lines 37-39). In Allison, an improved estimate of the double difference phase integer is given by the arithmetic mean of the estimates $N_{e1(1)}$ and $N_{e2(2)}$ computed in the first and second stages, i.e., the arithmetic mean of

two values. Since Allison does not achieve this claim limitation, it does not anticipate claim 7 or its dependent claims. Removal of this ground for rejection is requested.

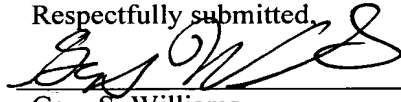
Presently amended independent claim 12 includes communication received from the local reference receiver and the wide-area differential satellite positioning system. Allison discloses the use of a local reference receiver, such as in RTK, and a satellite positioning system, such as GPS. Allison does not, however, disclose or suggest the wide-area differential satellite positioning system. As a consequence, Allison does not anticipate claim 12 or its dependent claims. Removal of this ground for rejection is requested.

CONCLUSION

In light of the above amendments and remarks, the Applicant respectfully requests that the Examiner reconsider this application with a view towards allowance. The Examiner is invited to call the undersigned attorney at 650-843-7501, if a telephone call could help resolve any remaining items.

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Respectfully submitted,



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